

Dr Stefania Piscopo Brown

Centre for Cardiovascular Research
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Current Position

Research Coordinator, Centre for Cardiovascular Research, Queens Medical Research Institute, University of Edinburgh, UK

Areas of relevant expertise

Human and animal physiology, neuroscience (sleep and behavior), model animals, cell culture, microscopy, biophysics, cell biology and biochemistry. Project delivery and management.

Relevant Fields

Whole animal and human physiology including embryology (rats, mice, marine invertebrates). Cell biology (cell culture, immunology, fluorescence microscopy). Biochemistry and Molecular biology (PCR gel electrophoresis, spectrophotometry etc.). Electrophysiology (EEG, EMG, patch clamp and voltage clamp), behavior (planning and analysis including telemetry, whole animal tracking and analysis (time-lapse and real-time). Project management lab organization.

Education: Degrees and achievements

PhD in Neuroscience: (4 years) Faculty of Medicine and Surgery, Second University of Naples. "Sleep and learning in rat and octopus". Academic Year 2003.

Qualified as Secondary School Teacher: Passed Italian national entrance examination to teach in High school (National competition). 72/100 class 60A (chemistry, biology, astronomy geography). (Practical and written capability to teach in Science subjects). 1 April 1999.

Specialization course (Corso di perfezionamento): in "Human Nutrition" organized by Faculty of Medicine and Surgery, Second University of Naples, Italy. Academic Years 1997-8.

State Qualifying Examination for the profession of Biologist: Written, oral and practical exercises at the National Board of Italian Biologists. Final score 210/210. Academic Year 1997.

BSc Equivalent (2.1) Laurea in Biological Science: (5 years, 29 exams) University of Naples "Federico II", Italy (106/110). Experimental thesis "Complex sequences in baseline sleep and learning capacity in rats ". Academic Year 1994-5.

Education: Additional Post-Graduate courses (with Certificates)

Course on the Physiopathology of reproduction and analytical techniques of assisted fertilization: Organized by Association of Fertility Biologists. Academic Year 1999.

Course on ISO rules serial 9001 D.L. 120/92, 156/97 and H.A.C.C.P.: Organized by Studio M&M associated advisors. Academic Year 1998.

Modern industrial pharmaceutical production: XVIII Cultural refreshment Course on "with reference to synthetic drugs "Organized by the Faculty of Medicine and Surgery, Department of Pharmacology and Toxicology, Naples, Italy. Seminars and lessons for more than 30 hours. Final examination. Academic year 1996 –7.

Hematology refresher course for Medics and Biologists XII: organized by the cathedra of Medical Physiopathology, Order of Surgeons and Medics, Order of Biologists, Department of General Pathology, Faculty of Medicine and Surgery, University of Naples, Italy. Seminars and lessons for a total of 60 hours. Thesis on "The Immune-system" and final examination. Academic year 1996 -7.

Awards

Visiting researcher: SAMS Oban, UK, (ASSEMBLE FP7 funds) August/Sept 2010.

1 month GAP (Gender Action Plan) Fellowship Prize: Travel and work in Japan. Marine Genomics Europe. 1 April -5 Oct 2007.

World Federation of Sleep Research Societies: Winner of travel grant for young scientist, to participate at the Third International Congress, Dresden, Germany. 5 Oct 1999.

Undergraduate and Postgraduate teaching/ teacher- training

Faculty member. 30th Course of the Italian Association for Neurological rehabilitation S.I.R.N.: Motor Learning and re-learning: esercizio, immaginazione e

motivazione” organized by Maria Gabriella Ceravolo, MD, PhD, Associate Professor of Physical Medicine and Rehabilitation Department of Neurosciences Politecnica University of Marche, Director of Neurorehabilitation Clinic Azienda Ospedali Riuniti di Ancona University of Ancona 30 June/1 July 2011.

Contract Professor: Integrative activity for the course of “General Zoology and laboratory practical’s”, University of Naples “Federico II” Academic Year 2008-9.

Contract Professor: Integrative activity at the course of “Animal biology and laboratory practicals”, : University of Naples “Federico II” Academic Years 2007-8.

Faculty member: Advanced course on: The dimension of time and gene functioning: focus on the nervous system. Invited teacher at the “organized by Prof. K.Kristensson, Karolinska Institutet Stockholm, Sweden. (EU FP6 network). 7-12 June 2007.

Previous Contracts and Work experience

Researcher: Laboratory of Animal Physiology and Evolution, Stazione Zoologica “A.Dohrn”, Napoli. Research topic ENNSATOX, nanomaterials in the aquatic environment, F7 framework funds. April 2010-July 2012.

Post doctoral Researcher: Laboratory of Neurobiology , Stazione Zoologica “A.Dohrn”, Napoli (MGE funds Marine genomics Europe FP6). 2 /5/2008- 2/6/2008.

Post doctoral Researcher: Laboratory of Neurobiology , Stazione Zoologica “A.Dohrn”, Napoli (MGE funds Marine genomics Europe FP6). 2/1/ 2008-2/3/2008.

Post doctoral Researcher: Laboratory of Neurobiology , Stazione Zoologica “A.Dohrn”, Napoli (MGE funds Marine genomics Europe FP6). 1/1/2007-31/1/2007.

Post doctoral Researcher: Laboratory of Neurobiology , Stazione Zoologica “A.Dohrn”, Napoli. (Italian National Fund for Basic Research). 2/5/2004 –31/10/2006.

Post-doctoral fellowship: Researcher with Prof. M.V. Ambrosini Department of Experimental Medicine and Biochemical Sciences, University of Perugia, Italy. 9-15/2/1996.

Post-lauream fellowship: Neurobiology research group directed by Prof. A. Giuditta at the Department of General and Environmental Physiology, University of Naples, Italy. 15/3/1997 – 04/1999.

Post-lauream practical apprenticeship in Biological Sciences: Neurobiology research group directed by Prof. A. Giuditta at the Department of General and Environmental Physiology, Naples, Italy. 15/3/1996 - 14/3/1997.

Publications: Peer reviewed and published

1. S Piscopo, ER Brown (2018) Zinc Oxide Nanoparticles and Voltage-Gated Human Kv11.1 Potassium Channels Interact through a Novel Mechanism. *Small* 14 (15), 1703403.
2. A Frolli, S Piscopo, M Conson (2015) Developmental changes in cognitive and behavioural functioning of adolescents with Fragile-X syndrome. *Journal of Intellectual Disability Research*. Jul;59(7):613-21.
3. ER Brown, S Piscopo (2013) Synaptic plasticity in cephalopods; more than just learning and memory? *Invertebrate Neuroscience*, 1-10 e pub.
4. M Eyman, C Cefaliello, P Mandile, S Piscopo, M Crispino, A Giuditta (2013) Training old rats selectively modulates synaptosomal protein synthesis. *Journal of Neuroscience Research* 91 (1), 20-29.
5. ER Brown, S Piscopo (2011) Ion channels in key marine invertebrates; their diversity and potential for applications in biotechnology *Biotechnology Advances* 29: 467457.
6. A Nishino, Y Okamura, S Piscopo, E Brown (2010) A glycine receptor is involved in the organization of swimming movements in an invertebrate chordate *BMC Neuroscience* 11 (1), 6.
7. S Piscopo (2009) Sleep and its possible role in learning: a phylogenetic view. *Frontiers in Bioscience (Scholar edition)* 1, 437-447.
8. S Piscopo, F Moccia, C Di Cristo, L Caputi, A Di Cosmo, ER Brown (2007) Pre- and postsynaptic excitation and inhibition at octopus optic lobe photoreceptor terminals; implications for the function of the 'presynaptic bags' *European Journal of Neuroscience* 26 (8), 2196-2203.
9. L Zanetti, F Ristatore, M Francone, S Piscopo, ER Brown (2007) Primary cultures of nervous system cells from the larva of the ascidian *Ciona intestinalis*. *Journal of Neuroscience Methods* 165 (2), 191-197.
10. ER Brown, S Piscopo, JT Chun, M Francone, I Mirabile, A D'Aniello (2007) Modulation of an AMPA-like glutamate receptor (SqGluR) gating by L- and D-aspartic acids *Amino acids* 32 (1), 53-57.

11. ER Brown, S Piscopo, R De Stefano, A Giuditta (2006) Brain and behavioural evidence for rest-activity cycles in *Octopus vulgaris*. *Behavioural Brain Research* 172 (2), 355-359.
12. S Piscopo, RD Stefano, MC Thorndyke, ER Brown (2005) Alteration and recovery of appetitive behaviour following nerve section in the starfish *Asterias rubens*. *Behavioural Brain Research* 164 (1), 36-41.
13. P Mandile, A Giuditta, F Romano, P Montagnese, S Piscopo, M Cotugno, S Vescia (2003) Waking EEG power spectra in the rat: correlations with training performance. *Cognitive Brain Research* 17 (1), 94-105.
14. A Giuditta, P Mandile, P Montagnese, S Piscopo, S Vescia (2003) The Role of Sleep in Memory Processing: the Sequential Hypothesis *Sleep and Brain Plasticity* 1 (9), 157-179.
15. S Piscopo, P Mandile, P Montagnese, M Cotugno, A Giuditta, S Vescia (2001) Trains of sleep sequences are indices of learning capacity in rats *Behavioural Brain Research* 120 (1), 13-21.
16. S Piscopo, P Mandile, P Montagnese, M Cotugno, A Giuditta, S Vescia (2001) Identification of trains of sleep sequences in adult rats. *Behavioural Brain Research* 119 (1), 93-101.
17. P Mandile, S Vescia, P Montagnese, S Piscopo, M Cotugno, A Giuditta (2000) Post-trial sleep sequences including transition sleep are involved in avoidance learning of adult rats. *Behavioural Brain Research* 112 (1-2), 23-31.
18. S Piscopo, P Mandile, P Montagnese, A Giuditta, S Vescia (1999) Sleep sequences in large temporal units (trains) identify improved indices of learning capacity in rats *Sleep Res. Online* 2, 238.

Publications: Book Chapters

19. ER Brown & S Piscopo (2009) “ Considerations for the use of “rapid” cell superfusion and voltage clamp to investigate the role of rare amino acids in synaptic transmission”. In *D-Amino Acids: Practical Methods and Protocols Vol. II* - Editors: R. Konno, H. Brückner, A. D'Aniello, G. Fisher, N. Fujii, and H. Homma. Nova Science Publishers, Hauppauge, New York, U.S.A. (updated reprinting).

20. ER Brown & S Piscopo (2006) " Considerations for the use of "rapid" cell superfusion and voltage clamp to investigate the role of rare amino acids in synaptic transmission". In D-Amino Acids: A New Frontier in Amino Acid and Protein Research -Practical Methods and Protocols- Editors: R. Konno, H. Brückner, A. D'Aniello, G. Fisher, N. Fujii, and H. Homma. Nova Science Publishers, Hauppauge, New York, U.S.A.
21. A Giuditta, P Mandile, P Montagnese, S Piscopo & S Vescia (2001) "The role of sleep in memory processing: the sequential hypothesis". In "Sleep and brain plasticity" Edited by Maquet P., Smith C., Stickgold R. Section II (Animal Behaviour) chapter 8: 157-178. Oxford University Press.

Publications: Published Meetings abstracts

1. Piscopo S. & Brown ER "Direct nanoparticle -protein interactions revealed using the hERG potassium channel as a target for the screening of the environmental and cytotoxic effects of engineered nanoparticles" – AISAL Meeting "Biomaterial in medicine and animal models", Congress Center, University of Naples, Via Partenope, Napoli, Italy.
2. Nwurim G., Piscopo S., Brown ER "From molecules to function: Neurobiology of the Ascidian tadpole larva". 6th International Tunicate Meeting, 3-7 July 2011, Montreal, Canada.
3. Piscopo S., Amore G., Nwurim G., Selzer N., Cervone C., Brown ER "You only live thrice, the secret life of *Ciona intestinalis*". Consiglio Scientifico SZN, 30Sept-1 Oct 2010, Ischia, Napoli, Italy.
4. Piscopo S. "Tracing the path of sleep evolution" during the meeting "Genes at work on time" organized by PROUST 15-17 October 2008, International Labour Organization Training Center, Torino, Italy.
5. Brown ER, Piscopo S. ,Nishino A, Okamura Y. "Frank homologies between invertebrate and vertebrate chordates revealed through the neurophysiology of swimming in *Ciona* tadpoles" II scientific meeting of the Italian Ascidiologists, 30 June – 1 July 2008, University of Palermo, Palermo, Italy.
6. Brown ER, Piscopo S. "Evolution of glutamate receptors; focus on non-vertebrate chordates". 27-30 September 2007 Congresso SINS 2007, Verona, Italy.
7. Piscopo S., Brown ER. " Function of cephalopod glutamate receptors in plastic and non -plastic synapses". 'Electrochemical Signaling by Membrane Proteins Biodiversity and principle'. 14-16 March 2007, Okazaki Congress Center. Okazaki, Japan.

8. Piscopo S., Branno M., D'Aniello E., Francone M., Brown ER. (2006) "Photoreceptors in a "primitive" chordate (ascidian) are "off"-type". "5th Forum of European Neuroscience" organized by FENS, 8-12 July 2006, Vienna, Austria.
9. Brown ER., Idris MM & Piscopo S. (2006) "Ciona intestinalis: towards a functional neurobiological model". "Incontro Ascidiologi Italiani: Prospettive della ricerca sulle ascidie in Italia: un incontro informale", 3-4 April 2006, Stazione Zoologica "A.Dohrn", Napoli, Italy.
10. Brown ER, Piscopo S. (2006) "Locomotion in ascidian larvae: the visceral ganglion, a single "primitive" spinal segment? "5th Forum of European Neuroscience" organized by FENS, 8-12 July 2006, Vienna, Austria.
11. Piscopo S., Langella M., Brown ER. (2006) "Function of cephalopod glutamate receptors in plastic and non plastic synapses". "Bioscience 2006" 23-27 July 2006, SECC, Glasgow, UK.
12. Brown ER & Piscopo S. (2006) "Glutamate receptors and the control of locomotion in the ascidian larva *Ciona intestinalis*". "Bioscience 2006", 23-27 July 2006, SECC, Glasgow, UK.
13. Piscopo S., Idris MM., Brown ER. "Genes and behaviour in the larva of "*Ciona intestinalis*" "Marine Genomics, an international conference" 28 October- 1 November 2006, Hilton Sorrento Palace Congress Center, Sorrento, Napoli, Italy.
14. Brown E.R., Idris MM., & Piscopo S. "The neurobiology of "*Ciona intestinalis*" larvae; coupling genome, function and behavior through glutamate receptors". "Marine Genomics, an international conference" 28 October- 1 November 2006, Hilton Sorrento Palace Congress Center, Sorrento, Napoli, Italy.
15. Zanetti L., Ristoratore F., Russo M.T., Francone M., Piscopo S., Brown E.R. "Primary cell cultures from the larva of ascidian *Ciona intestinalis*". MGE Exploratory Workshop "Stem Cells in Marine Organisms" 27-28 November 2006, Istituto di Biomedicina e Immunologia Molecolare "Alberto Monroy" Area della Ricerca del CNR di Palermo, Italy.
16. Piscopo S., Zanetti L., Ristoratore F., Francone M., Brown ER., (2005) "Biophysical properties of basal chordate neurons". National Congress of the Italian Society for Neuroscience and joint Italian-Swedish Neuroscience Meeting, 1-4 October 2005, Lacco Ameno Ischia, Napoli, Italy.
17. Brown ER., Piscopo S. (2005) "Evolution of motor networks, glycine, gaba and glutamate, the strange case of the ascidian *ciona intestinalis*". National Congress

- of the Italian Society for Neuroscience and joint Italian-Swedish Neuroscience Meeting, 1-4 October 2005, Lacco Ameno, Ischia, Napoli, Italy.
18. Eyman M, Crispino M., Ferrara E., Cefaliello C., De Stefano R., Mandile P., Piscopo S and Giuditta A. (2005) "Synaptosomal protein synthesis and synaptosomal mRNAs are modulated by training". National Congress of the Italian Society for Neuroscience and joint Italian-Swedish Neuroscience Meeting, 1-4 October 2005, Lacco Ameno, Ischia, Napoli, Italy.
 19. Piscopo S., D'aniello A & Brown ER. (2005) "D- and L-aspartic acid have opposing modulatory actions on L-glutamate induced gating of the ionotropic AMPA-like glutamate receptor SqGluR". 9th International congress on amino acids and Proteins, 8-12 August 2005, Vienna, Austria.
 20. Piscopo S, De Stefano R., Thorndyke M.C. and Brown E.R. (2005) "Alteration and recovery of appetitive behaviour following nerve section in the starfish (*Asterias rubens*)". SEB Meeting 10-16 July 2005, Barcelona, Spain.
 21. Thorndyke M, Piscopo S, De Stefano R, Brown ER (2003) "Echinoderm Nervous Systems: Diversity, Development & Regeneration". 11th International Echinoderm Conference Munich, Germany.
 22. De Stefano R., Brown E.R., Piscopo S., Giuditta A. (2002) "Identificazione di uno stato di sonno in octopus vulgaris", Book of abstract (Poster)), VII Meeting of the Italian Sleep Research Society, Padova, Italy.
 23. Giuditta A. , Mandile P., Piscopo S., Vescia S. (2002) " L'ipotesi sequenziale della funzione del sonno", Book of abstract (Symposium), VII Meeting of the Italian Sleep Research Society, Padova, Italy.
 24. Eyman M, ScottoLavina Z, Crispino M, Piscopo S and Giuditta A. (2002) "Synaptic protein synthesis: modulation by age and training"; Clinical neuropathology 21/3:116. Napoli, Italy.
 25. Giuditta A. , Vescia S., Mandile P. and Piscopo S. (2001) "Learning and sleep: the sequential hypothesis". In "Actas de fisiologia". Vol. 7:43. Ricardo A. Velluti editor. Montevideo, Uruguay.
 26. Brown E.R., Benech J.C., Sotelo J.R & Piscopo S. (2001) "Metabotropic glutamate receptors are present on squid optic lobe synaptosomes". 16th National Meeting British Neuroscience Society book of abstracts, pag. 44. Harrogate, UK.
 27. Piscopo S., Mandile P., Montagnese P., Giuditta A. and Vescia S. (1999) "Sleep sequences in large temporal units (trains) identify improved indices of learning

capacity in rats". Sleep Research Online, **2** (Supplement 1): 238. Dresden, Germany.

28. Piscopo S., Mandile P., Montagnese P., Giuditta A, Vescia S. (1997) " Architecture of baseline sleep and learning capacity of rats", Book of abstract, II Meeting of the Italian Sleep Research Society. Capri, Napoli, Italy.

Invited Seminars, presentations and outreach (mostly in English)

Motor Re-learning, the role of Sleep. Department of Neuroscience, University of Marche, Ancona. 30/06/2011.

In vitro characterization of nanoparticles in aqueous systems; the ENNSATOX project. Stazione Zoologica "A.Dohrn", Napoli 13/04/2011.

Evolution 'seen' from the visual system. Invited by Prof. La Valva , Faculty of Mat, Fis, and Nat Science, University of Naples "Federico II", Napoli. 13/06/2008.

History and functions of neurons. Invited by Prof. La Valva , Faculty of Mat, Fis, and Nat Science, University of Naples "Federico II", Napoli. 12/06/2008.

Sleep from invertebrates to humans. Invited by Prof. La Valva , Faculty of Mat, Fis, and Nat Science, University of Naples "Federico II", Napoli. 11/06/2008.

Light and dark in animal life: Human and Animal Sleep. invited by Prof. Varriale , "X week of scientific culture" Chiostro San Domenico, Benevento. 23/04/2008

Sleep phylogeny: news from the invertebrate world. invited by Prof. Marina Bentivoglio, President of SINS (Italian society of Neuroscience), Faculty of Medicine University of Verona. 26/09/2007

Behaviour of *Ciona intestinalis* larvae. SZN, Napoli. 14/06/2006

First biophysical results on cultured ascidian cells. Stazione Zoologica "A.Dohrn". 21/04/2005.

Human and animal sleep. Organized by Dr. Marianna Crispino, University of Naples. 16/01/2003.

Identification of a sleep-like state in *Octopus vulgaris*. Organized by the Naples Neuroscience Network. 11/09/2002

Sleep: history, features and functions. Organized by Dr. M.Crispino, for undergraduate students of "Diploma di analisi chimico biologiche", University of

Naples, Italy. 28/11/2000

The Architecture of Sleep. Organized by Department of General and Environmental Physiology, University of Naples, Italy. 17/05/1999

Sleep and learning in animals with bibliographical notes on men. Firenze Teatro Nicolini invited by Prof.Salzarulo Dep.of Physiology, University of Florence.24/02/1998

Sleep and learning. For the graduating students of Biological Sciences, organized by Prof. C..Perrone Capano, University of Naples, Italy. 19-21/11/1996.

Congress Platform and poster presentations

Poster at the AISAL Meeting “Biomaterial in medicine and animal models”, Congress Center, University of Naples, Via Partenope, Napoli. 22-23 9 2011.

Poster at the 6th International Tunicate Meeting, , Montreal, Canada. 3-7 July 2011.

ENNSATOX 3° Consortium Meeting, University of Antwerp, Antwerp. 27-28/02/2011.

ENNSATOX 2° Consortium Meeting, SZN. Napoli. 21-22/09/2010.

ESF-COST High-Level Research Conference “Marine Biotechnology: Future Challenges”, Acquafredda di Maratea, Italy. 20-25/06/2010.

EMBO Workshop Evo-Devo meets marine ecology, 9-11 October 2009, Sant’Angelo D’Ischia (NA). 9-11/10/2009 .

Poster at the 3th National Meeting SIRFA (Società italiana per la ricerca e la formazione sull’autismo), Auditorium Don Orione, Torre del Greco (NA). 3/10/2009 .

Poster at the meeting “Genes at work on time” organized by PROUST International Labour Organization Training Center, Torino. 15-17/10/2008.

Co-author of a seminar at the II scientific meeting of the Italian Ascidiologists, Department of Animal Biology, University of Palermo, Palermo. 30/06/ – 1/07/2008.

Co-author of a seminar at the meeting of the Italian Neuroscience society SINS 2007, Verona. 27-30/09/2007.

Poster at the meeting ‘Electrochemical Signalling by Membrane Proteins Biodiversity and principle’. Okazaki Congress Center. Okazaki. Japan. 14-16/03/2007.

Co-author of a lecture at “Marine Genomics, an international conference” 28 October-

1 November 2006, Hilton Sorrento Palace Congress Center, Sorrento (NA). 28/10-1/11/2006.

Poster exhibition at ““Marine Genomics, an international conference” 28 October- 1 November 2006, Hilton Sorrento Palace Congress Center, Sorrento (NA). 28/10-1/11/2006.

Poster exhibition at ““Marine Genomics, an international conference” 28 October- 1 November 2006, Hilton Sorrento Palace Congress Center, Sorrento (NA). 28/10-1/11/2006.

Poster exhibition at “Bioscience 2006” SECC, Glasgow, UK 23-27/07/2006.

Poster exhibition at the “5th Forum of European Neuroscience” organized by FENS, Vienna, Austria. 08-12/07/2006.

Co-author of a lecture at the “Incontro Ascidiologi Italiani: Prospettive della ricerca sulle ascidie in Italia: un incontro Informale”, Stazione Zoologica “A.Dohrn”, Napoli. 03-04/04/2006.

Poster exhibition at the “National Congress of the Italian Society for Neuroscience and joint Italian-Swedish Neuroscience Meeting”, Lacco Ameno Ischia (Napoli). 01-04/10/2005.

Poster exhibition at the “9th International Congress on Amino Acids and Proteins” organized by Prof. G. Lubec Dpt. of Pediatrics, Medical University of Vienna Währinger Gürtel 18-20, A 1090 Vienna, Austria . 08-12/08/2005.

Poster exhibition at the “Annual Main Meeting of the Society for Experimental Biology” organized by the SEB; Universitat Autònoma de Barcelona, Barcelona Spain . 11-15/07/2005.

Poster exhibition “VII Meeting of the Italian Sleep Research Society”, Padova, Italy; organized by the University of Milan, Italy. 13-14/09/2002.

Poster exhibition at the “XXXVIII Congress of the Neuropathology Italian Society”; Napoli. 29-05/01-06/2002.

Co-author of a symposium at the “2001 Sleep Odyssey” Congress Physiological Basis for Sleep Medicine Montevideo, Uruguay. 21-25/10/2001.

Poster exhibition at the “16th National Meeting” organized by the British Neuroscience Association; Harrogate, UK. 8-11/04/2001.

Poster exhibition and discussion on “ Sleep sequences in large temporal units (trains)

identify improved indices of learning capacity in rats ” at the Third International Congress, Dresden, Germany; organized by the World Federation of Sleep Research Societies. 05/10/1999.

Poster exhibition and discussion on “ Architecture of baseline sleep and learning capacity of rats” at the II Meeting of the Italian Sleep Research Society, Capri, Italy; organized by the University of Milan, Italy. 31/5/-1/6/'97.

Seminar on “Baseline sleep process” at the II Meeting of the Italian Sleep Research Society, Capri, Italy; organized by the University of Milan, Italy. 30/5/1997.

Stefania Piscopo Brown June 2023